

Title (en)
HYDRAULIC ROTARY DRIVE DEVICE

Title (de)
HYDRAULISCHE DREHANTRIEBVORRICHTUNG

Title (fr)
DISPOSITIF HYDRAULIQUE D'ENTRAÎNEMENT EN ROTATION

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Application
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Abstract (en)
[origin: WO2013143538A1] The invention relates to a hydraulic rotary oscillator (1) having a hydraulic rotary actuator (3) which has a fully cylindrical rotary actuator inner part (6) and at least two rotary actuator outer parts (7, 7') arranged alongside one another that are rotatable relative to the rotary actuator inner part (6), and having at least one continuously driven hydraulic rotation pump (2, 2') which drives the rotary actuator outer parts (7, 7') with a continuous hydraulic fluid flow, said rotary actuator outer parts being arranged concentrically in relation to the rotary actuator inner part (6) and at a radial distance from one other. The rotary actuator inner part (6) and the respective rotary actuator outer parts (7, 7') radially delimit at least two ring segment-shaped working chambers (5, 5') and are rotationally delimited in relation to one another in two rotational directions. The working chambers (5, 5') are separated from each other by a radially extending rotary actuator wall (8) that rotates with the chambers, are adjustable in size, and are connected to the hydraulic rotation pump (2, 2'), wherein the hydraulic fluid flow is directed to the working chambers (5, 5') in an alternating manner by means of at least one control means (27). The rotary actuator outer parts (7, 7') preferably move in a phase-shifted manner, preferably opposite one another.

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